Purchase Order Receipt Listing

Wednesday, April 12, 2017 2:10:03 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO35848 Receipt Dates from 4/12/2017 to 4/12/2017 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

rurenase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID Reference/ Description/ Cert Std	/ PO U/M / in/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name	ndor Nam	te VU-TWM001	TW Metals							
PO35848	П	M304TR0	M304TR0.500W.035 f	4/13/2017	4/12/2017	20.0000	77	0.0000	0	\$0.00
OSD	No	304 RD Tabe .500 x .035 W m137286 99	Jbe.500 x f	20.0000	PLOU01			0.0000	0	· · · · · · · · · · · · · · · · · · ·
	2	M304TR0	M304TR0.500W.049 f	4/13/2017	4/12/2017	20.0000		0.0000	0	00 08
	No	304 RD Fabe 500 x .049W o 49 m137286 9-89	18 500 x f	20.0000	PLOU01			0.0000	0	
	3	M304TR0	M304TR0.675W.091 f	4/13/2017	4/12/2017	23.6670		0.0000	0	00 08
	No	304 RD T ₁ .091 W	304 RD Tube .675 x f .091 W	20.0000	LAVO01			0.0000	0	
	4	M304TR0	M304TR0,750W.049 f o. 74K	4/13/2017	4/12/2017	120.0000 5	ž	0.0000	C	00 08
	No	.049W .04388	be.750 x f - 49	120.0000	PLOU01			0.0000	0	
	2	M304TR0	M304TR0,875W.065 f	4/13/2017	4/12/2017	20.0000		0.0000	0	00 08
	No	304 roung tube .065w 89 m137286	304 roung tube .875 x f	20.0000	PLOU01			0.0000	0	
	9	M4130NF	M4130NF0.750W.04 f	4/13/2017	4/12/2017	24.0000		0.0000	0	\$0.00
	No	4130 RDsfabe .750 x.049W m137286	Tube .750 f	20.0000	PLOU01			0.0000	0	
	7	M6061T6	M6061T6T0.3125W.0 f	4/13/2017	4/12/2017	24.0000		0.0000	0	\$0.00
	No	ALUMTR x.058w	ALUNTIGBE.3125 f x.058w g	20.0000	PLOU01			0.0000	0	

Book Amt	\$0.00		80.00		323.6670 0.0000 0.0000 \$0.00 0.0000
Boo					
MRB Qty/ MRB Reject Qty	0	0	0	0	
Σ		_			Quantity PO U/M) Quantity pt Value Quantity
Inspected Qty/ Rejected Qty (PO U/M)	0.0000	0.0000	0.0000	0.0000	Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity: Total Receipt Value: Total Balance Due Quantity:
Cost Per Unit/ Recv Value	62				Total Total
Recv Qty (PO U/M)	48.0000 GX		24.0000		
Recv Date/ Recv Emp	4/13/2017 4/12/2017	PLOU01	4/13/2017 4/12/2017	20.0000 PLOU01	
Required Date Required Qty	4/13/2017	40.0000	4/13/2017	20.0000	
PO U/M / Stock U/M	7U-TWM001 TW Metals M606,176T0.625W.06 f 0.632	`	y 90%	<u>.</u>	
Project ID Reference/ Description/ Cert Std	VU-TWM001 TW M6061T6T0.625V	6061-76 RD Tube .625 %.065 W m137286	M6061T6T1.000W06 f	6061T6 RD-TUBE 1.00 x .065w m137286-89	
Project ID		>			
Line Nbr/ Insp Req	dor Name 8	N _o	6	Š	
Purchase Order ID/ Curr Type	VendorID\Vendor Name PO35848 8	USD			

Page 2 of 2





ORDER NO.: 60629110 FROM: CRAN

PAGE 1

CUST NUMBER: 1203820 NET WGT:

DART AEROSPACE LTD

1270 ABERDEEN ST

CN K6A 1K7

85.382 REO.DATE: 04/13/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

HAWKESBURY ON

TERMS: F.O.B.:

CANADA

SOLD TO:

DONNA SMALLEY NET 30 DAYS

SHIPPING POINT

CUST ORD NO.: PO35848 SHIP BY:

04/07/17

VIA: FREIGHT:

COMMON CARRIER PREPAID

RELEASE NO.:

RECEIVING PHONE:

LINE ITEM DESCRIPTION 0001 36506 SMLS CD 304/L A269 1/2 OD X .049 WA

INVOICE QTY

SHIPPED OTY

WINTH

20' ML

LENGTH

ORD OTY 20.000 FT

20.000 FT

20.000 FT

4.718

PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

MLT: CHINA

ECCN: 2B999.g Export License: NLR PO:49336439 HT:YX1506712 PC: 1 CUSTOMER OTY:

Expiration Date: 0/00/00 20.000 UOM FT

SLB/CL:12-19

0002 36860 SMLS CD 304/L A269 3/4 OD X .04/9 WA ~

MFG:CHINA

CLN#

120.000 FT

INVOICE QTY 120.000 FT / SHIPPED OTY 120.000 FT

WT 44.006 PCS 6

1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

PO:49342471 AT:YX1501783 PC: 6 CUSTOMER QTY: 120.000 UOM FT MLT: CHINA MFG: CHINA

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00

20' CT

SLB/CL:11-63

0003 36969 SMLS CD 304/L A269

7/8 X .065 WA L

20'

CLN#

ORD OTY 20.000 FT - INVOICE OTY 20.000 FT \

SHIPPED OTY 20.000 FT \ WT

PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

MLT: CHINA

MFG: CHINA

SLB/CL:2-122

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html





ORDER NO.: 60629110 FROM: CRAN

PAGE 2

CUST NUMBER: 1203820 NET WGT:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

SALESPERSON:

85.382 REO.DATE: 04/13/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

CANADA

SOLD TO:

CN K6A 1K7

SHIP BY:

04/07/17

TERMS: F.O.B.:

DONNA SMALLEY NET 30 DAYS

VIA: FREIGHT: COMMON CARRIER

CUST ORD NO.:

SHIPPING POINT PO35848

RELEASE, NO.:

PREPAID

RECEIVING PHONE:

LENGTH

3/4 X .049

WIDTH

17/24 FT

CLN#

ORD OTY

LINE ITEM DESCRIPTION

0004 33047 CDS 4130 6736.

INVOICE OTY

SHIPPED QTY 24.000 FT

8.801

20.000 FT

** 1 TEST REPORTS REQUIRED **

24.000 FT

** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR PO: 49353474 HT: 598618 PC: 1 CUSTOMER OTY:

48.000 FT

Expiration Date: 0/00/00

MLT: GERMANY

MFG: GERMANY

SLB/CL:1625993

24.000 UOM FT

CLN#

ORD OTY 48.000 FT INVOICE OTY

SHIPPED OTY 48.000 FT WT

12 FT ML

12 FT ML

PCS

PCS

1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99

Export License: NLR

0005 42558 D6061-T6 5/8 OD X .065 WA

PO:49352984 HT:F002180450002 PC: 4 CUSTOMER QTY:

Expiration Date: 0/00/00 48.000 UOM FT

MLT: UNITED STATES

MFG:UNITED STATES

SLB/CL:220820

CLN#

0006 43284 D6061-T6 1 OD X .065 WA

ORD QTY 24.000 FT

INVOICE QTY 24.000 FT SHIPPED OTY 24.000 FT

WT 5.400 PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

MLT:UNITED STATES MFG:UNITED STATES SLB/CL:222450

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html





CUST	NUMBER:	1203820
	TAOLIDITA.	1200020

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

SALESPERSON:

ORDER NO.: 60629110 FROM: CRAN PAGE 3

SOLD TO:

NET WGT: 85.382 REQ.DATE: 04/13/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST

HAWKSBURY ON ONTARIO CANADA

CN K6A 1K7

CANADA

CN K6A 1K7

04/07/17

TERMS: F.O.B.:

DONNA SMALLEY NET 30 DAYS

COMMON CARRIER

CUST ORD NO.: PO35848

SHIPPING POINT

SHIP BY: VIA: FREIGHT:

PREPAID

RELEASE NO.:

RECEIVING PHONE:

LINE ITEM DESCRIPTION

0007 36476 SMLS CD 316/L A269 1/2 OD X .035 WAY

WIDTH LENGTH

20' ML

ORD QTY 20.000 FT INVOICE QTY

INVOICE QTY SHIPPED QTY 20.000 FT

** 1 TEST REPORTS REQUIRED **

ECCN: 2B999.g Export License: NLR Expiration Date: 0/00/00 PO:49336435 HT:YX1506597 PC: 1 CUSTOMER QTY: 20.000 UOM FT MLT:CHINA MFG:CHINA SLB/CL:11-93

0008 41723 D6061-T6 5/16 OD X .058 WA

CLN# ORD QTY 24.000 FT INVOICE QTY 24.000 FT

SHIPPED QTY 24.000 FT

1.310

12 FT ML

PCS

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00 PO:49354489 (HT:388604 PC: 2 CUSTOMER QTY: 24.000 UOM FT MLT:UNITED STATES MFG:UNITED STATES SLB/CL:422327

BROKERS KUEHNE AND NAGEL LTD

AREA TYPE OF PKG

B REDDICRATE

----- PACK INFO -----

PKGS GRS WEIGHT WIDTH 1.000 154.000

LENGTH HGHT

24.5000

1.000 154.000

BY: WN RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED

DATE FILLED

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE THANK YOU FOR THIS ORDER PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.

http://www.twmetals.com/invoice-terms.html





ORDER NO.: 60629110

FROM: CRAN

PAGE

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON

CANADA

TERMS:

F.O.B.:

CN K6A 1K7

NET 30 DAYS SHIPPING POINT

CUST ORD NO.:

SALESPERSON:

VIA:

FREIGHT:

RELEASE NO.: RECEIVING PHONE: DONNA SMALLEY

PO35848 COMMON CARRIER

PREPAID

85.382 REQ.DATE: 04/13/17 CONFIRMED

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SHIP BY:

04/07/17

27 ENGLEHARD DRIVE

MONROE TWP

NJ 08831

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Document-Valid Without Signature Date: 4/07/17

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

MILL TEST REPORT

			Maria Maria	-	7					manufacture (A 10 TO 10	
Purchaser.: TW META	ALS-Carol S	tream			C	ertificate N	lo.: 16-1-92					
Contract No.: TWM P	.O.No.: M49	336439			D	ete of Issu	e.: 2016.1.5					
Commodity: Stainless	Steel Seamle	ess Tubes	Specif	ications:	AST	TM A213-1	50(ASME SA	213-	15/ASTM	A269-15a	EAW	
Process: Cold Drawn					D	elivery Co	ndition: OD P	olish	ed to 240	Grit		
Strat Conda	Wast	Number	Lo			Dimensio	ne .		Q	uantity		
Steel Grade	near	Muniber	Numb	er		Dimensio	113	I	leces	I	eet	
TP304/TP304L	YXI	506-712	12-1	9 (1/	2" x 0.049'	' x 20'		2300	46	5,000	
		Che	mical	Composi	tion	by Weight	(%)	.*				
Element	С	Mn	P		S	Si	Cr		Ni	Mo	Co	
Requirements	≤0.035	€2.00	≤0.0	45 ≤0	.030	≤1.00	18.00-20.00	8.0	0-12.00	•	•	
Ladle Analysis	0.013	0.65	0.03	2 0.0	02	0.32	18.28		8.05		-	
Product Analysis	0.017	0.61	0.03	3 0.0	02	0.28	18.31		8.55	•	-	
			M	chanica	Pro	perties						
Test Item	Elong	Elongation (% in 2")			ensil	nsile Strength (PSI) Rm				trength (l p / 0.2%	PSI)	
Requirements		≥35				≥75,000			≥30,000			
Test Results		63/64				7,000/98,00				000/44,000		
Test Item		on of Area (%)	a Hard		C	Cold Bend Test	Flaring Test	Flattening Test		Flange Test	P.M.I. Test	
Requirements		-	Н	RB≤80		-	22%	e=0.09		•	-	
Test Results		-	1	77/79		-	Passed	1	assed	-	OK	
Test Item	Eddy C	urrent Test	1	nderwat sure Tes		Iltrasonic Test	Intergranu Corrosion	(49.740 No.	Macro	scopic In	spection	
Requirements	AST	M E 426		-		•	ASTM A26	2 E	End Cut	App	earance	
Test Results	Pa	assed				•	OK		OK		OK	
					Or other Designation of the last of the la	The second lives and the second	DED Cartie		COLUMN	CAINE DI	TO 157400	

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



By:

James Ch.

James Shi / Manager
Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory





MILL TEST REPORT

Purchaser.: TW META	LS-Cranbu	τ̈́y			Cer	rtificate l	No.: 16-1-13					
Contract No.: TWM P.	O.No.: M49	342471			Dat	te of Issu	e.: 2016.1.5					
Commodity: Stainless	Steel Seaml	ess Tubes	Specif	ications:	ASTI	M A213-	Sc/ASME SA	213	15/ASTM	A269-15a	EAW	
Process: Cold Drawn					Del	livery Co	ndition: OD	Polis	ned to 240	Grit		
Steel Grade	Unit	Number	Lot	t		Dimensio	ne.	,	Q	uantity		
Steel Grade	treat	Пиште	Numt	per /		Dimensi	ins ,		Pieces	1	Feet	
TP304/TP304L	(YXI	501-783	11-6	3	3/4	" x 0.049'	' x 20'		250	5	,000	
		Che	emical (Composit	ion b	y Weight	(%)					
Element	С	Mn	P	S	П	Si	Cr		Ni	Mo	Co	
Requirements	≤0.035	€2.00	≤0.0	45 ≤0.0	030	≤1.00	18.00-20.00	8.0	00-12.00	- '	-	
Ladle Analysis	0.012	0.68	0.03	1 0.00)1	0.37	18.35		8.05	-	-	
Product Analysis	0.019	0.70	0.03	3 0.00)2	0.39	18.37	,	8.31	-	-	
			Me	chanical	Prop	erties						
Test Item	Elong	Elongation (% in 2")			nsile	nsile Strength (PSI) Rm				trength (1 o / 0.2%	PSI)	
Requirements		² ≥35				≥75,000			≥30,000			
Test Results		65/66				000/90,00				000/35,000		
Test Item		on of Area (%)	Hardness		Co	ld Bend Test	Flaring Test	Flattening Test		Flange Test	P.M.I. Test	
Requirements		-	HRB≤80			-	22%	e=0.09		-	-	
Test Results		-	7	5/77	1	•	Passed	,	Passed	-	OK	
Test Item	Eddy C	urrent Test		nderwater sure Test	Uli	trasonic Test	Intergrant Corrosion		Macro	scopic In	spection	
Requirements	AST	M E 426		-		-	ASTM A26	2 E	End Cut	App	arance	
Test Results	Pa	ssed		-		-	OK		OK		OK	

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
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CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



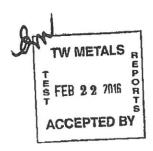
By:

James Shi / Manager

We hereby certify that this report-is true and correct.

Quality Control Department

Shanghai Pufa Stainless Steel Pipe Factory



MILL TEST REPORT

LS-Cranbu	ry			Certificate I	No.: 16-3-176				
O.No.: M49	339141			Date of Issu	e.: 2016.3.31				
Steel Seaml	ess Tubes	Specifi	cations: A	STM A213-1	Sc/ASME SA	213-	15/ASTM	A269-15a	EAW
	A		-	Delivery Co	ndition: OD I	Polish	ed to 240	Grit	
		Lot		D: 1			Q	uantity	
Heat	Number	Numb	er	Dimensio	ons]	Pieces	I	reet
YXI	502-577	2-122	2	7/8" x 0.065	' x 20'		75	1	,50 0
	Che	emical (Compositi	on by Weigh	(%)	,			
С	Mn	P	S	Si	Cr		Ni	Mo	Co
≤0.035	≤2.00	≤0.0	15 ≤0.0	30 ≤1.00	18.00-20.00	8.0	00-12.00	-	-
0.009	4 0.63	0.030	0.00	0.34	18.30		8.05	-	-
0.021	0.60	0.035	0.002	2 0.33	18.35		8.36	-	•
		Me	chanical I	roperties					
t Item Elongation (% in 2")			Rm					PSI)	
	≥35			≥75,000	≥30,000				
	63/64								
		Hardness		Cold Bend Test	Flaring Test	Fla	attening Test	Flange Test	P.M.I. Test
		HRB≤80		-	22%	•	=0.09	-	-
	-	7	7/79	-	Passed]	Passed	-	OK
Eddy C	urrent Test			Ultrasonic Test	_		Macro	scopic In	spection
AST	M E 426		-	-	ASTM A26	2 E	End Cut	App	earance
Pa	assed		•	-	OK		OK		OK
	O.No.: M49 Steel Seaml Heat YX1 C <0.035 0.009 0.021 Elong Reducti Z Eddy C AST	C Mn ≤0.035 ≤2.00 0.009 * 0.63 0.021 0.60 Elongation (% in 2') ≥35 63/64 Reduction of Area Z (%) Δ-	O.No.: M49339141 Steel Seamless Tubes	O.No.: M49339141 Steel Seamless Tubes Specifications: A Heat Number Lot Number YX1502-577 2-122	O.No.: M49339141 Steel Seamless Tubes Specifications: ASTM A213-1 Delivery Co Heat Number	Date of Issue.: 2016.3.31			

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
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- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
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CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



By:

We hereby certify that this report is true and correct.

James Shi / Manager Quality Control Department

Shanghai Pufa Stainless Steel Pipe Factory



Benteler Steel/Tube GmbH Postfach 13 40

Tel.: +49,5254,81-0 Fax: +49,5254,13666 33043 Paderborn Deutschland

ABNAHMEPRÜFZEUGNIS EN 10204-3.1

BENTELER 🛡

Steel/Tube

Prüf-Nr.:

41-961797/001/P

Dokument-Nr.:

(DIN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TUEV NORD CERT) [PED 2014/68/EU CERTIFIED BY TUEV NORD SYSTEMS] Blatt: Page: Page: ELECTRIC FURNACE Procédé d'élaboration de l'acier: FOUR ELECTRIQUE ELEKTROSTAHL × Warmrohrwerk/Zieherei Stamp of the inspection representative: Stempel des Abnahmebeauftragten: Stahlerschmelzungsverfahren: Steelmaking process: Marque du producteur: Manufacturer's brand: Poinçon du contrôleur: Herstellerzeichen: No. du certificat: Inspection No.: Manufacturer: Producteur: Hersteller: 46004384 TW M49353474 TUBES D' ACIER SANS SOUDURE 4170922 1625993 NAHTLOSE STAHLROHRE SEAMLESS STEEL TUBES No. de commande du client: No. de commande Benteler: No. d'avis d'expédition: Benteler Auftrags-Nr.: Versandanzeigen-Nr.: Purchase Order No.: Benteler Order No.: Dispatch Note No.: No. du document: Document No.: Produkt: Product: Produit: Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 EN 10204:2005-01 The Aboretum, Suite 204 760 Constitution Drive EXTON PA 19341 Lieferbedingungen: TW Metals

AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1, AMS6360 Rev. M, AMS 2301K Terms of delivery:

AMS 2253E-83, Aircraft Type, Seamless, Cold Finished

Conditions de livraison:

Maße - Toleranzen: Dimensions-tolerances: Dimensions-tolérances:

Stahlsorte:

GRADE 4130

Nuance d'acier: Steel grade:

Condition N Delivery condition: Lieferzustand:

État de livraison:

Produktkennzeichnung:

FSD: BENTELER AMS6360M-AMS-T-6736 B.1-MIL-T-6736 B 1-AMS 2301K 4130 Condition N HEAT-NO. CD AQ S DIMENSIONS WA GERMANY Product marking:

Marquage du produit:

AZZ – Aztinterbeschriftung, Etching ink marking, Gravure à l'encre . FK = Fabkennzeichnung, color marking, marquage par couleur . FS = Farbschablonlenung, paint stendilling, marquage par polingmane à jet d'encre de couleur . LK = Laserkennzeichnung, Marquage laser . PKE = Etkottenkennzeichnung, ink jet spray marking, marquage sur étiquette . PS = Prâgestempel, die stamp, marquage par polingonnage . TS = Tintenstrahlkennzeichnung, ink jet spray marking, imprimante à jet d'encre de d'encre .



BENTELERY

Bentaler Steel/Tube GmbH

Postfach 13 40
33043 Paderborn

Deutschland
Tel.: +49,5254,13866

Steel/Tube

ABNAHIMEPROFIZE OGNIS EN 10204-3.1 Document No.: INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1 Pos. Stück Maße Rem Number Dimensions Len		41-901/8/198-14		Prut-Nr.: Inspection No.:		Blatt: 2/ 4 Page:
			No.	No. du certificat:		Page.
						, n n
	Gesamtlänge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-NrGruppe	Vielfachlängen
	Length total	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
	Longueur totale	Poids	No. de coulée	Pression d'épreuve		Longueurs multiples
feet	feet	sqı				•
_	3688,32	1345	598618			
\						
Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]						
MN P	S		N	CC		
0,54 0,010	0,001 0		17 0,14	0,17		
Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]				2.4		
MN	s		Z o	20		
0,52 0,009	0,001 0		17 0,12	0,15		
ET-test: ac	c. to ASTM-A	450; ET - Te	st method: acc. t	o ASTM-E 309; fo	r imperfections;	PASSED
ET-test: E	T with rotating	pancake coil	s; according to Ef	v 10246-3; imperf	ections;	
Notch dep	th: 0,30 mm; n	otch width	< = notch depth;	notch length min.	2 x transducer	
VIN VIN S. 5.5	P 0,010 duit [%] P 0,009 2 0,009 ET-test: ac ET-test: ac	P S C duit [%] P S C 0 0009 0,001 0 2 0,009 0,001 0 ET-test: acc. to ASTM-A-ET-test: ET with rotating I Notch depth: 0,30 mm; n	P S CR M duit [%] P S CR M P S CR M 2 0,009 0,001 0,89 0, ET-test: ET with rotating pancake coil Notch depth: 0,30 mm; notch width	P S CR MO NI duit [%] 0,010 0,001 0,88 0,17 0,14 duit [%] P S CR MO NI 2 0,009 0,001 0,89 0,17 0,12 2 0,009 0,001 0,89 0,17 0,12 ET-test: ET with rotating pancake coils; according to Ef Notch depth: 0,30 mm; notch width <= notch depth;	P S CR MO NI CU duit [%] 0,010 0,001 0,88 0,17 0,14 0,17 duit [%] P S CR MO NI CU 2 0,009 0,001 0,89 0,17 0,12 0,15 2 0,009 0,001 0,89 0,17 0,12 0,15 ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfination depth; 0,30 mm; notch width <= notch depth; notch length min.	P S CR MO NI 9,010 0,001 0,88 0,17 0,14 P S CR MO NI 0,009 0,001 0,89 0,17 0,12 -test: acc. to ASTM-A 450; ET - Test method: acc. to test: ET with rotating pancake coils; according to EN tch depth: 0,30 mm; notch width <= notch depth;

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

PASSED

Vérification des dimensions: Dimensions examination: Maßkontrolle:

PASSED

Materialverwechslungsprüfung:

PASSED

Augensichtkontrolle: Visual inspection: Examen visuel:

width (max. 50 mm)

Material conformity test: Vérification de la nuance:

Die Probennahme erfolgte an Vielfachlängen. The sampling was carried out on multiple lengths. L'echantillonage etait realise aux longueurs multiples.

Benteler Steel/Tube GmbH Postfach 13 40

3-

33043 Paderborn Deutschland Tel.: +49.5254,81-0 Fax: +49.5254,13666

Steel/Tube

BENTELER V

4

Blatt: 3/	Page:	Page:
Prüf-Nr.:	Inspection No.:	No. du certificat:
41-961797/001/P		
Dokument-Nr.:	Document No.:	No. du document:
ABNAHMEPRÜFZEUGNIS EN 10204-3.1	INSPECTION CERTIFICATE EN 10204-3.1	CERTIFICAT DE RECEPTION EN 10204-3.1

CERTIFICAT	INSPECTION CERTIFICATE EN 10204-3.1 CERTIFICAT DE RECEPTION EN 10204-3.1	10204-3.1	SS	No. du document:	ent:	No. du certificat:	lo.: licat:		Page: Page:	
Zugversuc	ch längs bei RT,	Zugversuch längs bei RT, Vollprobe / Tensile test longitudinal at RT	st longitudinal at	RT, Full se	, Full section test specimen / Essai de traction longitudinale à TA, Eprouvette a section complete	n longitudînale à TA, Epri	ouvette a section complete	93		,
Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	essung	Streckgrenze	Zugfestigkeit	Dehnung			
Item	Specimen No.	Heat No.	Specimen dimensions	ansions	Yield strength	Tensile strength	Elongation			
Poste	No. de l'éprouv.	No. de coulée	Dimensions de l'éprouv.	l'éprouv.	Limite élastique	Résistance à la traction Allongement	Allongement			
Anforderungen	nngen				Rp 0,2 %	Rm	A2" 1	1. Formel		
Requirements	nts		mm		KSI	KSI	%	1. Formula		
Exigences					MIN 75	MIN 95	MIN 12.00	I. Formule		
0003	100000	598618	19,05 X	1,25	120	128	18,00			
0003	000000	598618	19,05 X	1,25	120	128	18,00			
0003	00000	598618	19,05 X	1,25	118	127	18,00			
0003	000004	598618	19,05 X	1,25	120	128	18,00			
0003	000000	598618	19,05 X	1,25	118	128	18,00			
						The second secon				

Randentkohlung / Surface decarburization / Décarburation superficielle

Pos. / Item / Poste: 0003

decarburization outside and inside max. 0.012 in, partial decarburization outside and inside max. 0,305 mm, without total acc. to AMS-6360, partial decarburization outside max. 0.009 in, partial decarburization inside max. 0.009 in, partial decarburization; partial decarb. out. max.: 0,229 mm; partial decarb. ins. max.: 0,229 mm

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0003

52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M, material free from mercury contamination, FAR BAA:

Country of origin of the material and heat: Germany, Aircraft quality steel acc. to AMS 2301K; see appendix page 1 of 1

Pos. / Item / Poste: 0003

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0003

Magnetic particle inspec.: acc. to AMS 2301K/ASTM-E 1444, on prematerial

Pos. / Item / Poste: 0003

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Verkäufer(in) / Sales Personnel / Personne chargée: Mr Schwarz, Tel.: 05254 81-204311, Fax: 204391

BENTELERY

Steel/Tube

4/

Blatt: Page: Page:

ABNAHMEPRÜFZEUGNIS EN 10204-3.1 INSPECTION CERTIFICAT DE RECEPTION EN 10204-3.1

Tel.: +49.5254.81-0 Fax: +49.5254.13666

Deutschland

);

Benteler Steel/Tube GmbH Postfach 13 40 33043 Paderborn

Dokument-Nr.: Document No.: No. du document:

41-961797/001/P

Prüf-Nr.:

Inspection No.: No. du certificat:

Abnahmebeauftragter

Inspection representative Contrôleur

i.A. THOMAS GOLLAN / GUT

Es wird bestätigt, daß die gelleferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgütig. We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature. Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été étabil par traitement électronique de l'information et est valide sans signature.

Paderborn Schloß Neuhaus, 19.09.2016, TEL.: 05254.81-201765 FAX: 05254.81-201752

Benteler Steel/Tube GmbH

Residenzstraße 1 33104 Paderborn

Germany Tel::49.5254.81-0 Fax: 49.5254.13666

Inspection Certificate EN 10204.3.1 / appendix Certificat de réception EN 10204-3.1 / appendice Abnahmeprüfzeugnis EN 10204-3.1 / Anhang

Dokument-Nr.

Von of o

BENTELER

Steel/Tube

41-961797/001/P No. de document: Document No.:

Blatt: Page: Page:

Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

cture	тах. С 2	C2	1	. (
Macrostructure test Essai de macrostructure (ASTM-E 381)	max. R 1	R1		BENTELER V
Ma	max. S 2	82		BET Steel/
Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301K)	S max. 0,25	0,024		
Magnetbul Magnetic parti Essai à la poud (AMS)	F max. 0,34	0,029		
Härtbarkelt (min. Anforderungen) fardenability (min. requirements) Trempabilité (exigence min.) (ASTM-A 255)	J(8/16") min. 28 HRC	34		,
Härtbarkeit (min Hardenability (mi Trempabilité (v	J(5/16") min. 35 HRC	42	Inside 0,000 mm	
Korngröße Grain size Grosseur de grain (ASTM-E 112)	min. 5	6	Outside 0,000 mm Inside 0,000 mm	·
Position Item Poste		003		, i
Schmelzen-Nr. Heat No. Coulée No.		598618	Decarburization Depth	

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de merce

Paderborn Schloß Neuhaus, 21.09.2016 Tel.: (0)5254.81-201760 Fax: (0)5254.81-201752

Inspection representative Contróleur **Abhahmebeauftragter**

Thomas Gollan



FABRICATED PRODUCTS

CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

TW METALS
E JUL 12 16 P
 ACCEPTED BY
٠,٠
TEMPER:
Т6
I ENOTH.

CUSTOMER PO NUMBER:		CUSTOMER	R PART NUMBER:		PRODUCT DESCRIPTION:		
M49352984-1		42558			Drawn Seamless T	ube/Pipe	
KAISER ORDER NUMBER	LINE ITEM:	J	SHIP DATE:		KAISER LOT NUMBER:	ALLOY:	TEMPER:
220820	001		07/05/2016	(F00218045	6061	Т6
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	-	DIAM/DAEATHKNS:	WIDTH:	LENGTH:
558.000 LB	346.000 F	cs	222226				12.000 FT
SHIP TO:	1,				SOLD TO:		
TW METALS INC					TW METALS INC	N DDIVE	

235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00218045	0001	1	48.7	43.2	17.0	N/A	N/A	N/A
F00218045	0002	1	46.9	40.8	18.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D76011	.60	.24	.23		.97	.07		.02	.00	.00	.00	.01	.03

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.0650"; Round @ AMS 4082P AMS-WW-T-700/6C (ASTM B210-12) WW-T-700/6F WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA COMPLIES TO DIN EN 10204 JAN 2005 No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).

> Plant Serial: 00022478 Kaiser Order Number: 220820

Line Item: 001 MB

Page 1 of 2



CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

ACCEPTED BY

Plant Serial: 00022478 Kaiser Order Number: 220820



FABRICATED PRODUCTS



CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

CUSTOMER PO NUMBE	ER:	CUSTOMER	PART NUMBER:	PRODUCT DESCRIPTION:							
M49364165-1				Drawn Seamless T	Drawn Seamless Tube/Pipe						
KAISER ORDER NUMBI	ER: LINE ITEM:	SHIP DATE:		KAISER LOT NUMBER:	KAISER LOTNUMBER: ALLOY:						
222450	001		02/17/2017	F00234133	6061	Т6					
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:					
582.000 LB	216.000 1	PCS	224379			12.000 FT					
SHIP TO:				SOLD TO:							
TW METALS INC 27 ENGLEHARD EXIT 8A OFF NJ MONROE TWP,	DRIVE TPK	SA		TW METALS INC 760 CONSTITUTIO SUITE 204 EXTON, PA 19341							
•											

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00234133	0001	1	47.2	40.1	20.0	N/A	N/A	N/A
F00234133	0002	1	46.8	40.4	20.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D76511	.59	.28	.23	.06	.98	.08	.07	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 1.0000"; Wall: 0.0650"; Round @ AMS4082P AMS-WW-T-700/6C ASTM B210-12 WW-T-700/6F WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED. This Product Complies to FAR BAA, DFARS BAA, FAR TAA COMPLIES TO DIN EN 10204 JAN 2005 No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA (DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).

Plant Serial: 00024181 Kaiser Order Number: 222450





CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

Plant Serial: 00024181 Kaiser Order Number: 222450

MILL TEST REPORT

									ALC: NAME OF TAXABLE PARTY.	NAME OF TAXABLE PARTY.			
Purchaser.: TW META	LS-Cranbu	gy .				Certificate No.: 16-1-10							
Contract No.: TWM P.	O.No.: M49	336435			I	Date of Issue.: 2016.1.5							
Commodity: Stainless	Steel Seamle	ess Tubes	Specif	icatio	ions: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW								
Process: Cold Drawn					Î	Delivery Con	ndition: OD F	olish	ed to 240	Grit			
5: 10 1	774	Number	Lo	t		Dimensio	ne	,	Q	uantity			
Steel Grade	Heat	Number	Number			Dimensio	113	1	Pieces	F	eet		
TP316/TP316L	YXI	506-597	11-9	11-93 1/2" x 0.035" x 20' 500 10,000									
	(%)												
Element	С	C Mn P S				Si	Cr		Ni	Mo	Co		
Requirements	≤0.035 ≤2.00 ≤		≤0.0	45 <	≤0.03	0 ≤1.00	16.00-18.00	10.	00-14.00	2.0-3.0	-		
Ladle Analysis	0.016	0.63	0.02	0.027 0.003		0.31	16.69		10.05	2.02	-		
Product Analysis	0.016	0.61	0.03	2	0.007	0.34	16.67		10.35	2.03	-		
			M	echani	ical Pr	roperties							
Test Item	Elong	ation (% in 2'	')	Tensile Stre			(PSI)			trength (I o / 0.2%	PSI)		
Requirements		. ≥35				≥75,000		≥30,000					
Test Results		63/64			-	88,000/89,00				00/42,000			
Test Item		on of Area (%)	Ha	ırdnes	ss	Cold Bend Test	Flaring Test	Fla	ittening Test	Flange Test	P.M.I. Test		
Requirements		-	H	RB≤8	30	-	22%	e	=0.09	i	-		
Test Results		-		76/78		-	Passed	1	Passed		OK		
Test Item	Eddy C	urrent Test	Air U Pres	nderw sure T		Ultrasonic Test	Intergranu Corrosion	0500000	Macro	oscopic Inspection			
Requirements	AST	M E 426		-			ASTM A26	2 E	End Cut	t Appearance			
Test Results	Pa	işsed		-		-	OK.		OK		OK		

ISO 9001:2008 Certified by Intertek 110703068

PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed .
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA

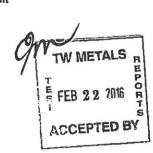


By:

James Shi / Manager Quality Control Department

We hereby certify that this report is true and correct.

Shanghai Pufa Stainless Steel Pipe Factory





PRECISION TUBE CO.

287 WISSAHICKON AVE. NORTH WALES PA 19454 Control No: 1604

CERTIFIED TEST REPORT

	The second name of the second	ASE ORDE	R NO.		ORD.	NO.				TUBE P/N
Para and a Markettan a	9354489			4	22327					50580005
S	FC	5 TUBEWAY	c, GA 302	98			IP: IO	175 TUB	EWAY PARK,	GA 30298
CITINAUC	TY ORD.	DESCRI	PTION				Q'	ry. SHI	PPED	DATE SHIPPE
18	824 FT	TEMPER - SPEC - ASTM- LENGTH - LGTH TOI SHAPE - FINISH OD .3	MS 4082P B-210-12 12 FT +.1250	AMS-W IN I EXACT	0000 IN LENGTH 0030	1		2004	FT	08/05/16
			MEC	CHANICA	L PROP	ERTI	ES			
SAMPLE	# S	TENSILE TRENGTH P.S.I.)	STRE	ELD NGTH	IN 2	GATIONCH		ROCKW		AVERAGE GRAIN SIZE (MM.)
1		45,775	40,	439		17				
										T REPORTS
			I	DESTRUC	TIVE T	ESTS				CEPTED BY
omments	; FAR BAA	COMPLIES,	DFARS BA	A COMPLI	ES, FAR	TAA C	COMPL	IES		19354489 AUG 0 9 2016
			NON	-DESTR	UCTIVE	TES	rs		1 V	V METALS
EDDY CU	RRENT: PA	ASS								
			СН	EMICAL	COMPO	SITIO	N	73		
ALLOY:		HEAT:		TRAC RAW M	EABILIT ATL VEN	Y #:(38860 PTC22	04 249 - Kai	ser Alı	uminum
	Si	Fe C		Mg	Cr O.O.4	Zn	TI	Al		
	0.40	0.	15	0.80	0.04			Rem.		

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgement. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundry containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Melted and Manufactured in USA QMS Registered to ISO 9001: 2008

By: Art Onaitis
QA Manager

08/05/16

Page: 1 of 1





CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND, WA 99352

CUSTOMER PO NUMBER	₹: С	USTOMER PART NUMBER:	PRODUCT DESCRIPTION:						
PTC2249	TC2249 SPIRIT-371850		5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT						
KAISER ORDER NUMBE	R ORDER NUMBER: LINE ITEM: SHIP DATE:		KAISER LOT NUMBER:	KAISER LOT NUMBER: ALLOY:					
320031	001	04/01/2016	50751-323	6061	0				
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:				
16135.000 LB	2913.000 P	CS 004991			13.984 FT				
SHIP TO: PRECISION TUBE 287 WISSAHICKO N. WALES, PA 19	N AVENUE	,	SOLD TO: MUELLER INDUS PRECISION TUB 8285 TOURNAME STE. 150 MEMPHIS, TN 38		CON TUBY				

Actual Physical Properties

								The same of the sa
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%Elong in 2	HARDNESS	CONDUCT.	BEND
50751-323	0001	0002	17.3	5.9	26.7	NA N/A	N/A	N/A
50751-323	0001	0003	17.3	5.9	26.7	NA N/A	N/A	N/A
50751-323	0001	0004	17.3	5.4	27.2	NA N/A	N/A	N/A
50751-323	0001	0005	18.0	6.1	28.0	NA N/A	N/A	N/A
50751-323	0001	0006	17.4	5.7	26.4	NA N/A	N/A	N/A
50751-323	0001	0007	17.9	6.2	27.6	NA N/A	N/A	N/A
50751-323	0001	0008	17.5	5.8	26.6	NA N/A	N/A	N/A
50751-323	0001	0009	17.7	5.7	28.6	NA N/A	N/A	N/A
50751-323	0001	0010	16.9	5.6	25.2	NA N/A	N/A	· N/A
50751-323	0001	0011	17.6	5.8	27.9	NA N/A	N/A	N/A
50751-323	0001	0012	17.8	6.9	27.4	NA N/A	N/A	N/A
50751-323	0001	0013	18.1	6.1	27.2	NA N/A	N/A	N/A
50751-323	0001	0014	17.4	5.7	28.3	NA N/A	N/A	N/A
50751-323	0001	0015	17.0	5.6	28.6	NA N/A	N/A	N/A
50751-323	0001	0016	18.2	5.8	26.6	NA N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot	
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15	
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA ·	NA	0.00	.0	
F75366	.58	.29	.22	.06	.98	.08	.05	.02	.00	.00	.00	.01	.02	

Applicable Requirements:

ASTM-B241-12 NON-STENCILED ASTM-B221-13 ASTM-B345-11 AMS-QQ-A-200/8 97(R07) TYPE I UNS#A96061 Also conforms to EN 10204 3.1

ACCEPTED BY
AUG 0 9 2016

Plant Serial: 00013829

Kaiser Order Number: 320031

Line Item: 001

Page 1 of 2



CERTIFIED TEST REPORT

http://Online.KaiserAluminum.com

KAISER ALUMINUM FABRICATED PROCUCTS, LLC 2425 STEVENS DRIVE RICHLAND, WA 99352

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

TEST REPORTS ACCEPTED BY

AUG 0 9 2016

Plant Serial: 00013829 Kaiser Order Number: 320031

MATERIAL: M300 DATE: 17-04			0.8W.035	PO	/ BATCH NO.:	635848	8/M137286
MATERIAL CERT REC'D: QUANTITY RECEIVED: 20	jes	3		THICKNES	SS ORDERED:	-035	
QUANTITY INSPECTED: 30	7				ZE ORDERED: _	JV//T	
QUANTITY REJECTED:	2			SHEET SIZ	E RECEIVED: _	NIA	
							8
DESCRIPTION	(Ch	CR leck (N)		C	OMMENTS		
SURFACE DAMAGE	Y	N					i
CORRECT FINISH	0	N					
CORROSION	Y	(1)					`
CORRECT GRAIN DIRECTION	Q	N					
CORRECT MATERIAL	(Y)	N					
CORRECT THICKNESS	(4)	N					
PHOTO REQUIRED	Y	(V)	16	17/2/2			
CORRECT MATERIAL	0	N	XS+m	19313	>		
CORRECT REF # TO LINK CERT	8	N	Ht # X	X150650	1 +		
CORRECT MATERIAL IDENTFICATION		N					
CORRECT M# ON THE MATERIAL	(N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)					
			5)				`•
CUT SAMPLE PIEC			TERIAL AND F ORD RESULTS		HARDNESS C	HECK.	
			HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							9
HARDNESS / DUROMETER REA	ADIN	IG					
	<u>t</u>	esters	located in the Q	uality Office			

QC 18 INSPECTION -	ENGINEERING SIGNOFF (if required)
DAS	
INSPECTED BY: 08 9	SIGNED OFF BY:
DATE: (7-04-17	DATE:

MATERIAL: <u>M304</u> DATE: <u>17-04</u>		0010.049	PC) / BATCH NO.:	035848	<u>/M13</u> 7286
MATERIAL CERT REC'D: QUANTITY RECEIVED:	yes		THICKNE	SS ORDERED: _ SS REÇEIVED: _	.049	
QUANTITY INSPECTED: 101				IZE ORDERED: _	N/A	
QUANTITY REJECTED:			SHEET SI	ZE RECEIVED: _	N/A	
			٠			£
DESCRIPTION	NCR (Check Y/N)		C	COMMENTS		41111
SURFACE DAMAGE	YO					
CORRECT FINISH	(Y) N					
CORROSION	Y					
CORRECT GRAIN DIRECTION	(Y) N					<u>;</u>
CORRECT MATERIAL	(E) N					
CORRECT THICKNESS	(Y) N					
PHOTO REQUIRED	YN	1				:
CORRECT MATERIAL	MN	4Stm.	A213			
CORRECT REF # TO LINK CERT	M (Ø)	HT#	X1506	71)		
CORRECT MATERIAL IDENTFICATION						·
CORRECT M# ON THE MATERIAL	(A) N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	YR					*****
DOES THIS REQUIRE AN EXTRUSION REPORT	Y 0					
				100	`	
CUT SAMPLE PIEC				HARDNESS CH	ECK.	The second secon
	RECO	ORD RESULTS				
		HRC	HRB	DURA	DUR D	
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER RE.	ADING					
	testers	located in the Qu	ality Office			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: Ch 988	SIGNED OFF BY:
DATE: (7-04-17	DATE:

MATERIAL: M300	ITRO	3.75	30W.049	PC) / BATCH NO.:	193584	<u>8/M13</u> 7
DATE: 17-04	-1	7_	-			•	,
MATERIAL CERT REC'D:	4	5			SS ORDERED:	0049	F
QUANTITY RECEIVED: 120					SS REÇEIVED:	099	
QUANTITY INSPECTED: (20)				SHEET SI	ZE ORDERED:	NA	.*
QUANTITY REJECTED:	8			SHEET SIZ	ZE RECEIVED:	WIA	-
	1	- 1					
DECORPTION	NC	1			OMMENTS		
DESCRIPTION	(Ch				OWNINE		į
OUDSTACE DAMAGE	Y	W)					
SURFACE DAMAGE CORRECT FINISH	0	N					
CORROSION	Y	0					
CORRECT GRAIN DIRECTION	0	N					
CORRECT MATERIAL	(3)	N					
CORRECT THICKNESS	(P)	N	8				
PHOTO REQUIRED	X	0	A				
CORRECT MATERIAL	(Y)	Ν	ASTI	A213	8-		
CORRECT REF # TO LINK CERT	(8)	N	HTA	YX15017	х3		
CORRECT MATERIAL IDENTFICATION		N					i
CORRECT M# ON THE MATERIAL	(Y)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	0					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	0					1 1
						9	,
CUT SAMPLE PIEC					HARDNESS C	HECK.	
		REC	ORD RESUL				
			HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE		_			-		
HARDNESS / DUROMETER RE			la and in the	Overlity Office			<u> </u>
	<u>t</u>	esters	s located in the	Quality Office			
QC 18 INSPECTION			•		NGINEERING	SIGNOFF (if	required)
go to men content)						
	B9			SIGNED	OFF BY:		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE: 17-04-17

MATERIAL: <u>M30</u> DATE: <u>17-04-</u>	H+17	30.	<u>875w</u> 065	ро / ватсн no.: <u>po 35848/M</u> 13					
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	y 8	-5		THICKNES	SS ORDERED: _ SS REÇEIVED: _ ZE ORDERED: _ ZE RECEIVED: _	,065 ,065 U/A N/A			
				*	8				
DESCRIPTION	A	CR eck N)	ē	С	OMMENTS				
SURFACE DAMAGE	Y	0					<u> </u>		
CORRECT FINISH	(A)	N							
CORROSION	Y	(M)							
CORRECT GRAIN DIRECTION	(X)	N					<u>i</u>		
CORRECT MATERIAL	X	N							
CORRECT THICKNESS	(3)	N							
PHOTO REQUIRED	A	(N		010					
CORRECT MATERIAL	(X)	N	ASTMA	12/13	may may				
CORRECT REF # TO LINK CERT	8	N	HT # YX	15075	++				
CORRECT MATERIAL IDENTFICATION	(0)	N							
CORRECT M# ON THE MATERIAL	(A)	N							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	0							
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	0					1		
			U)			*			
CUT SAMPLE PIEC			TERIAL AND PF ORD RESULTS		HARDNESS C	HECK.			
		. \	T HRC T	HRB	DUR A	DUR D			
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE									
HARDNESS / DUROMETER REA	ADIN	IG							
THE THE TENT OF TH			s located in the Qu	ality Office	-				
	_								

QC 18 INSPECTION	 ENGINEERING SIGNOFF (if required)
INSPECTED BY: Of 9 88	SIGNED OFF BY:
DATE: 17-04-17	 DATE:

MATERIAL: 14/30			0W049	PO	/ BATCH NO.: _	D3684	8/M13
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	7	3		THICKNES SHEET SI	SS ORDERED: _ SS REÇEIVED: _ ZE ORDERED: _ ZE RECEIVED: _	,049 N/A	<u></u>
DESCRIPTION	NC (Ch Y/	eck N)	*	C	OMMENTS		
SURFACE DAMAGE	Υ	Q					
CORRECT FINISH	C	N					
CORROSION	Y	(10)					
CORRECT GRAIN DIRECTION	(4)	N					
CORRECT MATERIAL	(3)	N					
CORRECT THICKNESS	8	N					
PHOTO REQUIRED	Y	Ø					
CORRECT MATERIAL	8	N	11 1 11	598618			
CORRECT REF # TO LINK CERT	B	N	H+ #	590618			
CORRECT MATERIAL IDENTFICATION	M	N					
CORRECT M# ON THE MATERIAL	(8)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(3)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y						4
							*
CUT SAMPLE PIEC	E OF	MA	TERIAL AND	PREFORM A	HARDNESS C	HECK.	
The same of the sa		REC	ORD RESULT	SBELOW			
			HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL			<u> </u>				1
SIZE OF TEST SAMPLE							4
HARDNESS / DUROMETER RE	ADIN	IG_					<u></u>
1	<u>t</u>	esters	s located in the	Quality Office			
3							

QC 18 INSPECTION	- ENGINEERING SIGNOFF (if required)
DAS	
INSPECTED BY: CB 9	SIGNED OFF BY:
DATE: 17-04-17	DATE:

MATERIAL: MGOG DATE: 1704				Р	O / BATCH NO.:	P03584	8/M13
MATERIAL CERT REC'D: QUANTITY RECEIVED: 481 QUANTITY INSPECTED: 481 QUANTITY REJECTED:		THICKNI SHEET S	ESS ORDERED: ESS REÇEIVED: SIZE ORDERED:	1862 N/A			
DESCRIPTION	(Ch	CR eck (N)			COMMENTS		
SURFACE DAMAGE	Y	(1)					
CORRECT FINISH	(Y)	N					
CORROSION	X	(M)					
CORRECT GRAIN DIRECTION	W	N					
CORRECT MATERIAL	(X)	N					
CORRECT THICKNESS	(4)	N					
PHOTO REQUIRED	Y	N					
CORRECT MATERIAL	8	N	ASth	1310	- 1-		
CORRECT REF # TO LINK CERT	8	N	HF#	F 6021	5045		
CORRECT MATERIAL IDENTFICATION	X	N					
CORRECT M# ON THE MATERIAL	Y	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	0					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N				100 CT	
					ALIADONECC	, CLIECK	
CUT SAMPLE PIEC	E O	FMA	TERIAL AND I	PREFORM	A HAKUNESS	UMEUN.	
		REC	ORD RESULT		I DUR A	DUR D	
			HRC	HRB	DUKA	DOKD	
TYPE OF MATERIAL						1	
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER RE	ADIN	VG		<u></u>			
		tester	s located in the (Quality Office			

QC 18 INSPECTION	•	ENGINEERING SIGNOFF (if required)
INSPECTED BY: B		SIGNED OFF BY:
DATE: (7-04 - 17		DATE:

MATERIAL: MG061: DATE: 1704-			000 W.065	PO	/ BATCH NO.:	635848/1	413728
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	2			THICKNES	SS ORDERED: SS REÇEIVED: ZE ORDERED: ZE RECEIVED:	1605 N/A	
DESCRIPTION	NC (Ch	eck N)		C	OMMENTS		
SURFACE DAMAGE	Y	R					
CORRECT FINISH	(8)	N					
CORROSION	Y	(N)					
CORRECT GRAIN DIRECTION	(1)	N					
CORRECT MATERIAL	00	N					
CORRECT THICKNESS	(A)	N					
PHOTO REQUIRED	Y	N	100	-	,		
CORRECT MATERIAL	(3)	N	ASTM BJ	10	-		
CORRECT REF # TO LINK CERT	0	N	HTIFFO	023413	3		
CORRECT MATERIAL IDENTFICATION	W	N					
CORRECT M# ON THE MATERIAL	0	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(8)				10-10-00-0	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	Q					1
			E.			`	
CUT SAMPLE PIEC	E OF	MA	TERIAL AND P	REFORM A	HARDNESS C	HECK.	
		REC	ORD RESULTS		T 5115 6 1	51155	
			HRC	HRB	DURA	DUR D	
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER RE	ADIN	1G					
	1	tester	s located in the Qu	ality Office			

QC 18 INSPECTION	•	ENGINEERING SIGNOFF (if required)
INSPECTED BY: B 9		SIGNED OFF BY:
DATE: 17-04-17		DATE:

MATERIAL: <u>M6661</u> DATE: <u>1704</u>	+6t	6.3	3125W.058	PO /	ватсн по.: Д	035848	<u>1 M1</u> 37
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	ye	<u>S</u>	κ	THICKNESS SHEET SIZE	S ORDERED: S REÇEIVED: E ORDERED: E RECEIVED:	.058 N/A	
				*			
DESCRIPTION	NCF (Che Y/N	ck I)	a	CC	MMENTS		
SURFACE DAMAGE		N					
CORRECT FINISH	(Y)	N					
CORROSION		(1)					
CORRECT GRAIN DIRECTION	(Y)	N					
CORRECT MATERIAL	9	N					
CORRECT THICKNESS	(2)	N					
PHOTO REQUIRED	A	0	15-100 1	2010			
CORRECT MATERIAL	M	N		3310			
CORRECT REF # TO LINK CERT	8	N	HT # 30	8604			
CORRECT MATERIAL IDENTFICATION	(8)	N					
CORRECT M# ON THE MATERIAL	C	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	B					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)					1
			2×			, IFOK	
CUT SAMPLE PIEC	E OF	MA	TERIAL AND P ORD RESULTS	REFORM A I	HARDNESS C	HEUN.	
		120	T HRC T	HRB	DURA	DUR D	
TYPE OF MATERIAL							
TYPE OF MATERIAL							8
SIZE OF TEST SAMPLE	ΔΠΙΝ	G					
HARDNESS / DUROMETER RE	אווטה	octor	s located in the Qu	uality Office	1		
	<u> 1</u>	SIEL	3 located in the Qu	acutafour inter-			

QC 18 INSPECTION	•	ENGINEERING SIGNOFF (if required)
INSPECTED BY: 0/8 9 DATE: 17-04-17	S	SIGNED OFF BY:
		DATE:



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35848

Purchase Order Date 4/5/2017 PO Print Date 4/5/2017

Page Number 1 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014

VU-TWM001

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

APR 0 5 2017

Contact Name

Vendor Phone

585 768 5600

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607 Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact Ship To Phone

YRC COLLECT Ship Via:

Ship Acct:

Reference Line Nbr Vendor Part Number

> **Line Comments Delivery Comments**

M304TR0.500W.035

Description/ Mfg ID

Promise Date

304 RD Tube .500 x .035W

4/13/2017 Yes

4/13/2017

Req Date/ CD

Taxable

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

M304TR0.500W.049

304 RD Tube .500 x .049W

4/13/2017 Yes

4/13/2017

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING

AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

Req Qty/

Unit of

Measure

20.00

Terms

PO Unit Price

Extended

Price

\$30.00

20.00

\$2.80

\$56.00

20.00

Line Total:

\$56.00

M304TR0.675W.091 3

304 RD Tube .675 x .091W

4/13/2017

Yes 4/13/2017

\$5.00

\$100.00

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35848

Purchase Order Date 4/5/2017 PO Print Date 4/5/2017

Page Number 2 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014

VU-TWM001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

585 768 5600

Customer POID

Chantal Lavoie

YRC COLLECT

Customer Tax # Terms

10127-2607

Currency

Buyer

Net 30 USD

FOB

FCA - (Free Carrier)

Ship Via: Ship Acct:

M304TR0.750W.049

304 RD Tube .750 x .049W

4/13/2017

Yes

4/13/2017

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING

Line Total:

\$2.10

\$252.00

\$100.00

AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

M304TR0.875W.065

304 round tube .875 x .065w

4/13/2017

Yes

4/13/2017

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

Line Total:

\$252.00

\$4.20

\$84.00

20.00

120.00

Line Total:

\$84.00



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35848

Purchase Order Date 4/5/2017 PO Print Date 4/5/2017

Page Number 3 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 VU-TWM001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

585 768 5600

Customer POID

Chantal Lavoie

Ship To Contact

Ship To Phone

Ship Via: Ship Acct: YRC COLLECT

Customer Tax # Terms

10127-2607 Net 30

Currency

Buyer

USD

FOB

FCA - (Free Carrier)

M4130NT0.750W.049

4130 RD Tube .750

4/13/2017

20.00

\$120.00 \$6.00

x.049W

Yes

4/13/2017

MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361

6362/6373/6374

Line Total:

\$120.00

M6061T6T0.3125W.058

ALUM TUBE .3125 x

4/13/2017

.058w

20.00

\$2.50

\$50.00

Yes 4/13/2017

recei Juf.

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

Line Total:

\$50.00



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35848

Purchase Order Date 4/5/2017 PO Print Date 4/5/2017

Page Number 4 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014 US VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

Chantal Lavoie

FCA - (Free Carrier)

10127-2607

Net 30

USD

CANADA

Buver

Terms

FOB

Currency

Customer POID

Customer Tax #

Contact Name

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

6061-T6 RD Tube .625 x.065W

4/13/2017

0.00

\$0.00

\$0.00

Yes

4/13/2017

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-22578 OR AMS 4080 OR AMS 4082 OR/AMS 4083 OR ASTM B210 OR

ASTM B241

M6061T6T0.625W.065

M6061T6T0.625W.065

4/13/2017

4/13/2017

40.00

0.00

- "

\$126.0

151-20

Line Total:

\$126.00

M6061T6T1.000W065

6061T6 RD TUBE 1.00 x

.065w

4/13/2017

Yes

4/13/2017

20.00

\$2.96

\$59.20

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

Line Total:

\$59.20



Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35848

Purchase Order Date 4/5/2017 PO Print Date 4/5/2017

Page Number 5 of 5

Order From:

TW METALS PO BOX 933014 ALTANTA, GA 31193-3014

LIC

VU-TWM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

TRC COLLECT

71401-45

PROCUREMENT QUALITY CLAUSES 4/13/2017

No

4/13/2017

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retension of quality documents

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

1.00

\$0.00

\$0.00

5017-4-11.

Line Total:

\$0.00

PO Total:

\$877.20

U

CX

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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